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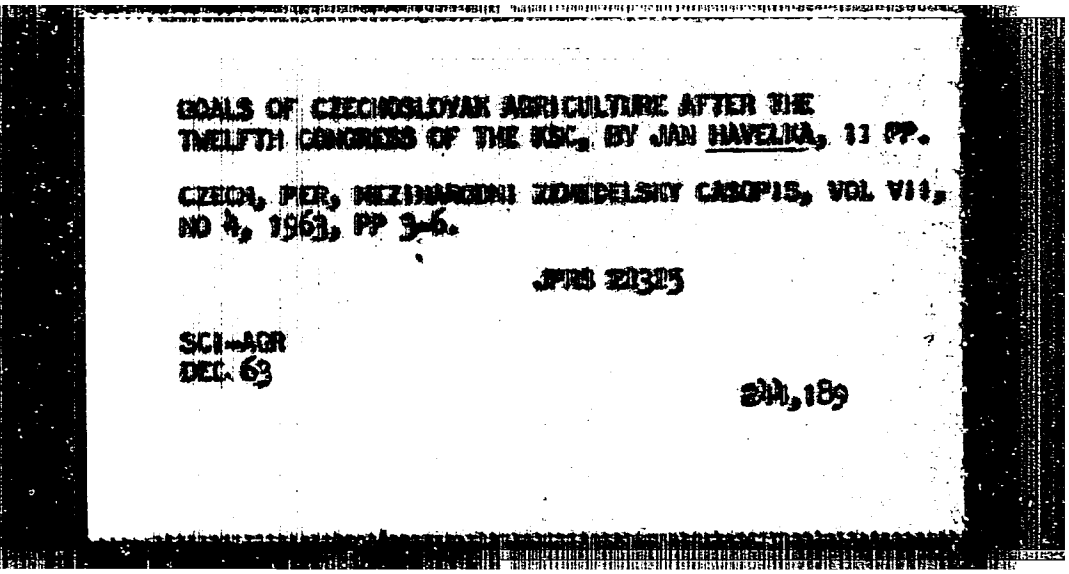

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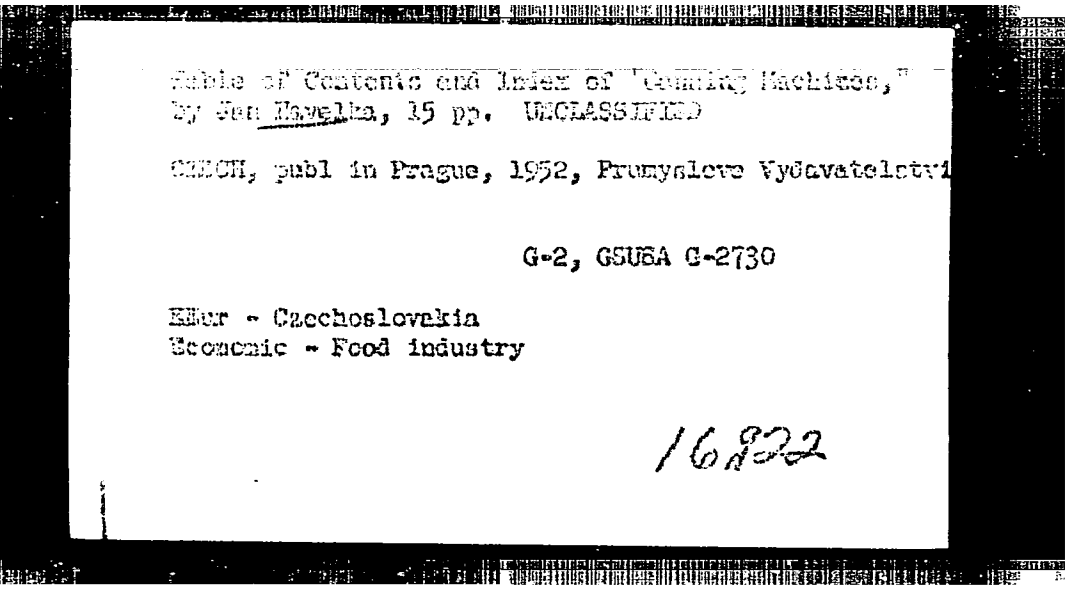

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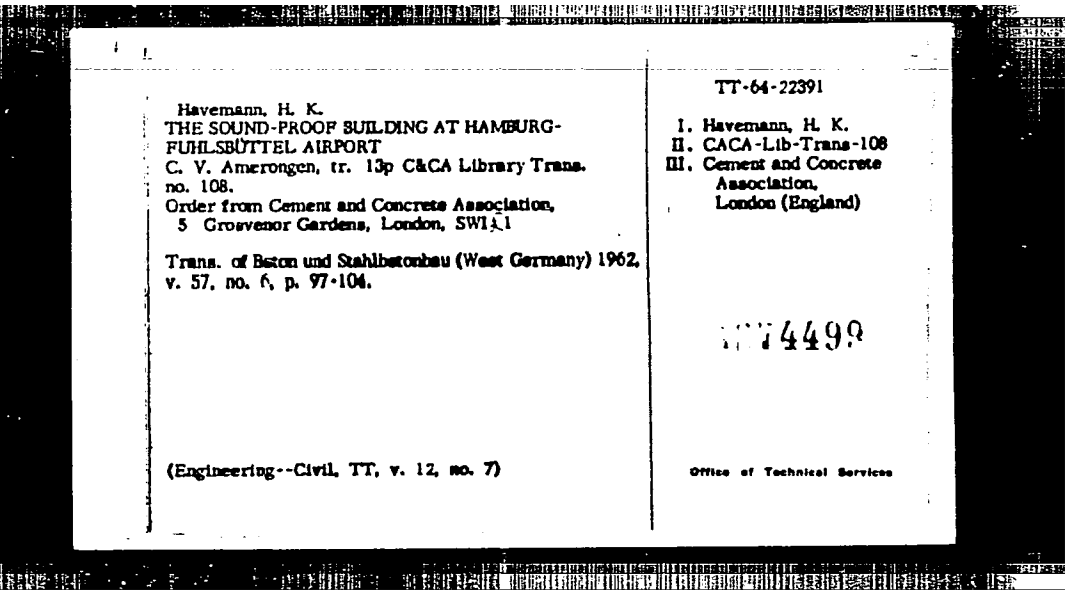

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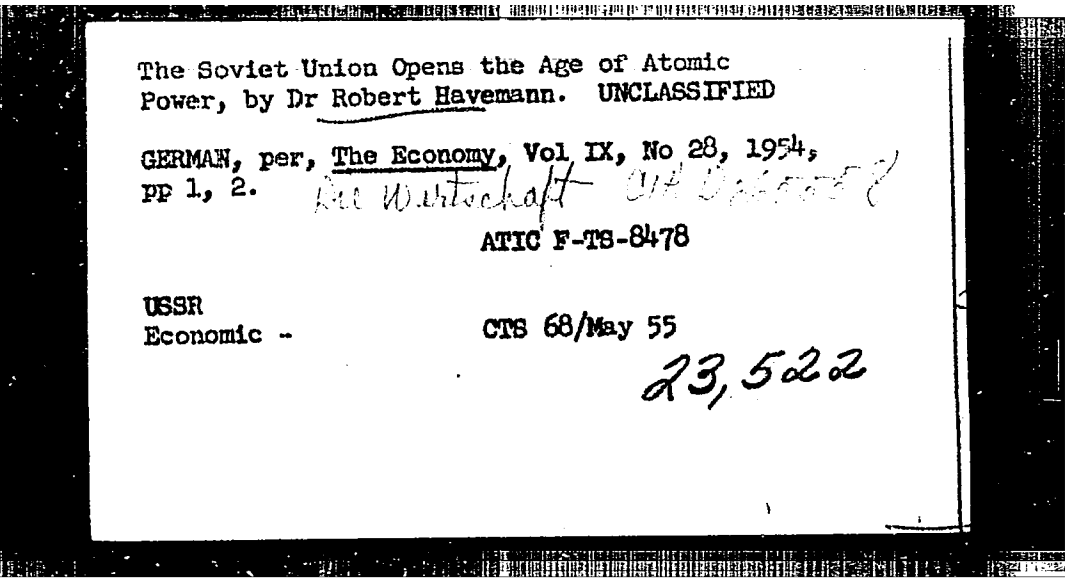

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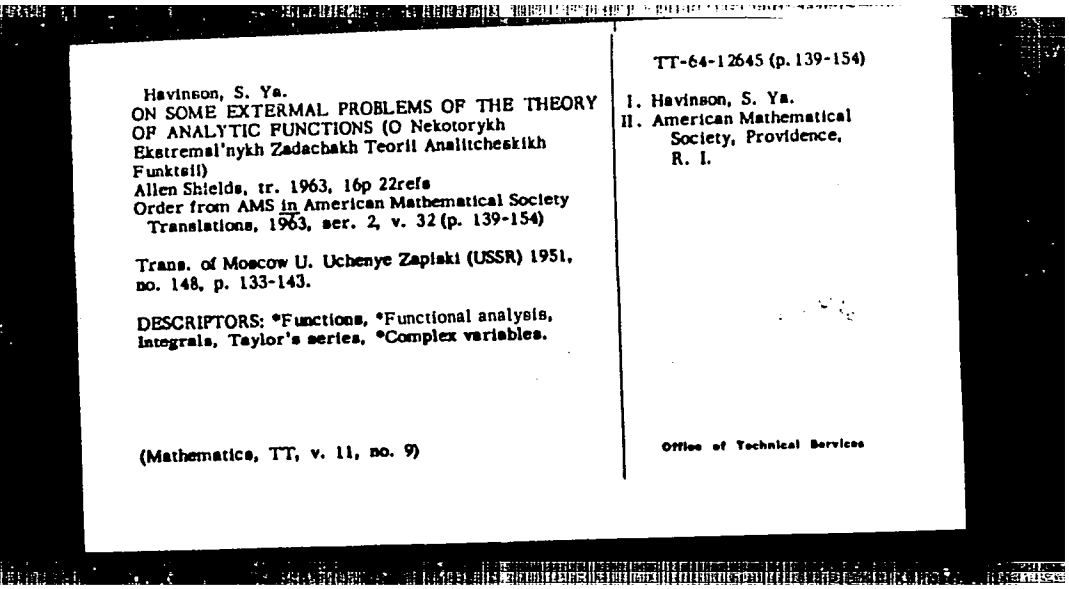

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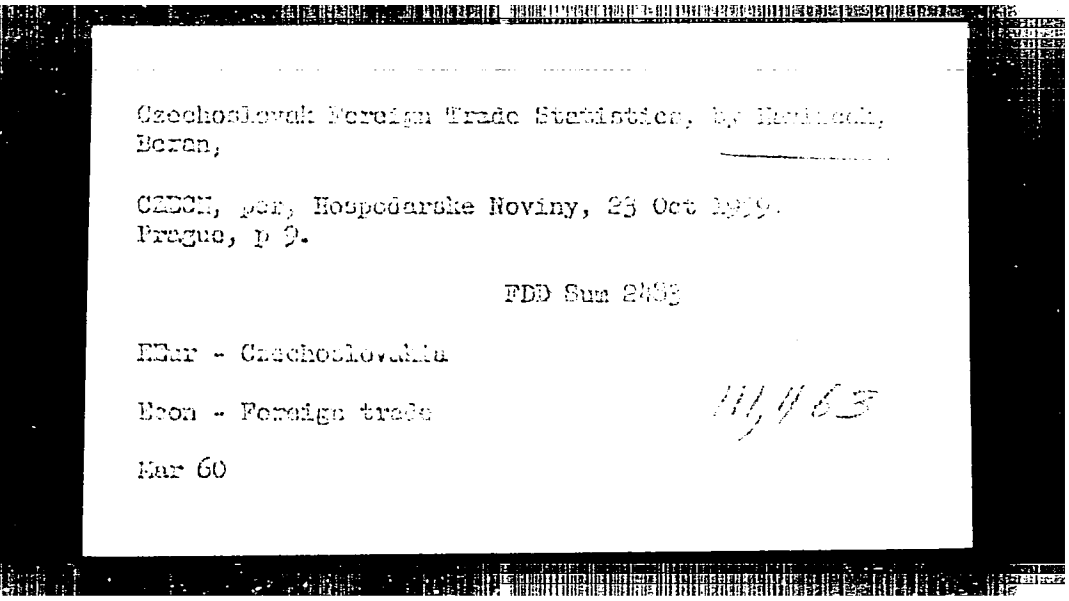

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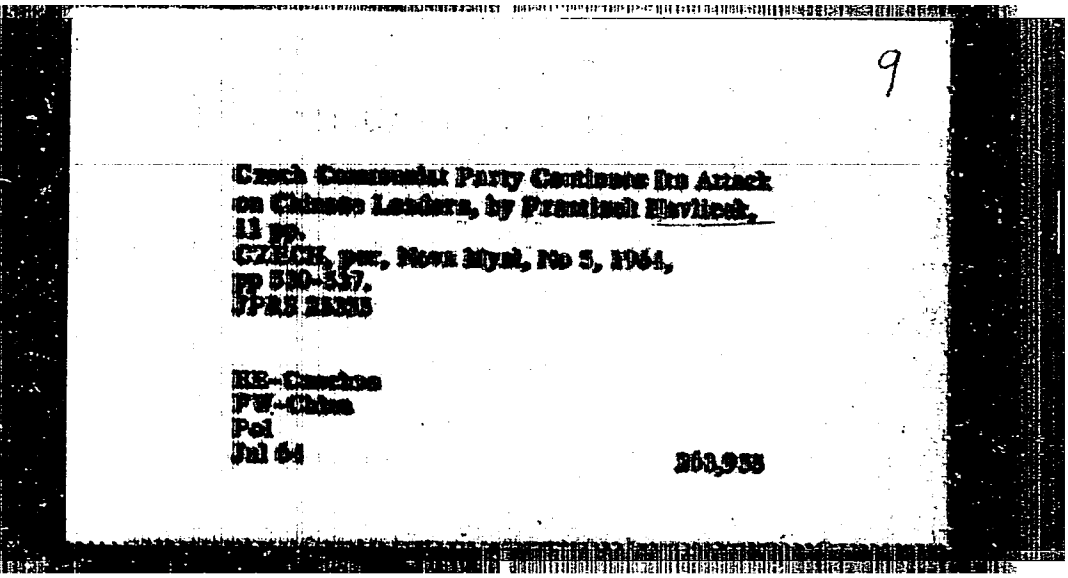

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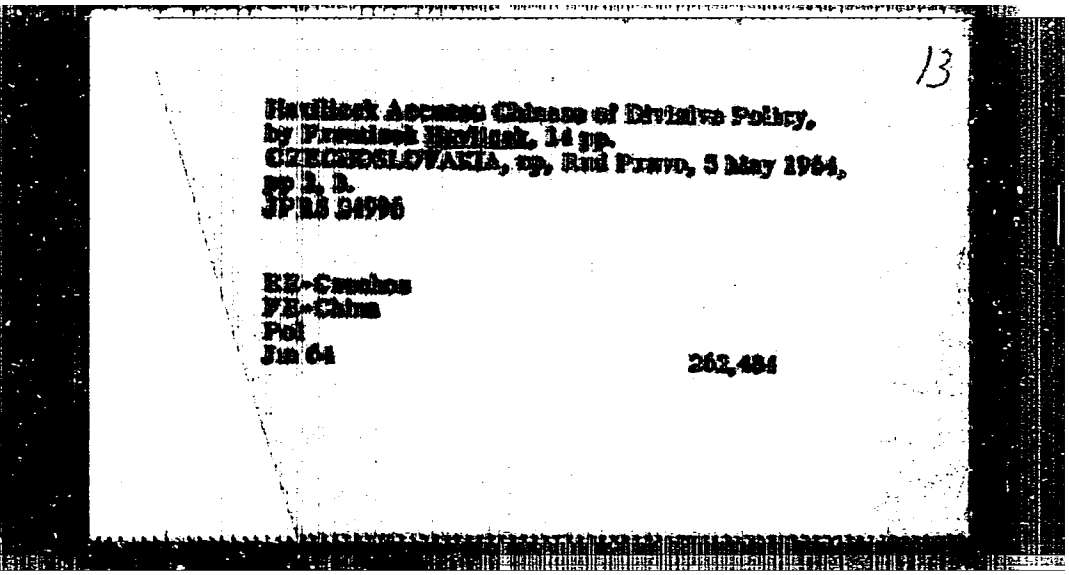

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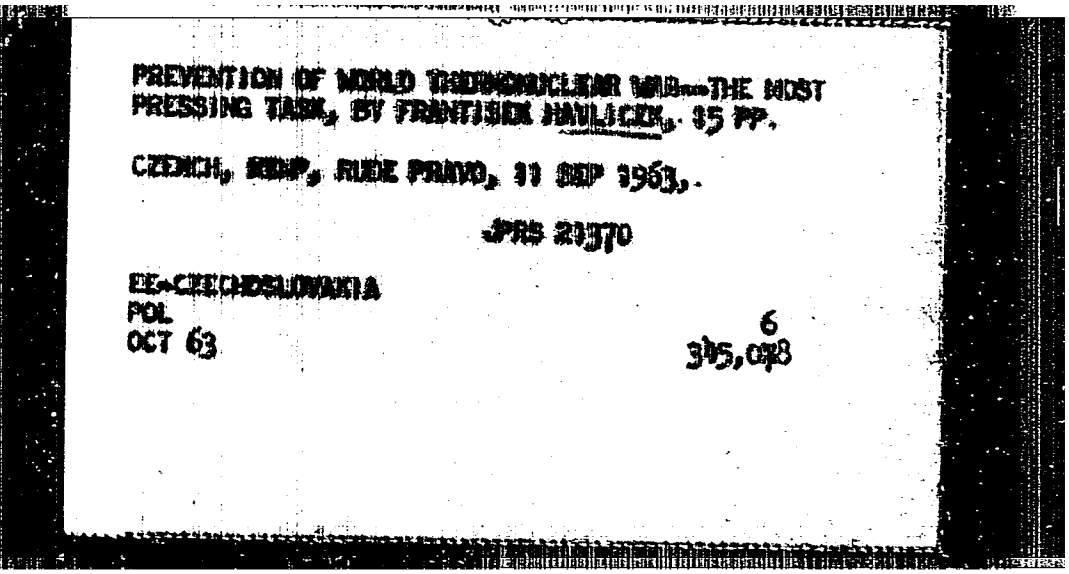

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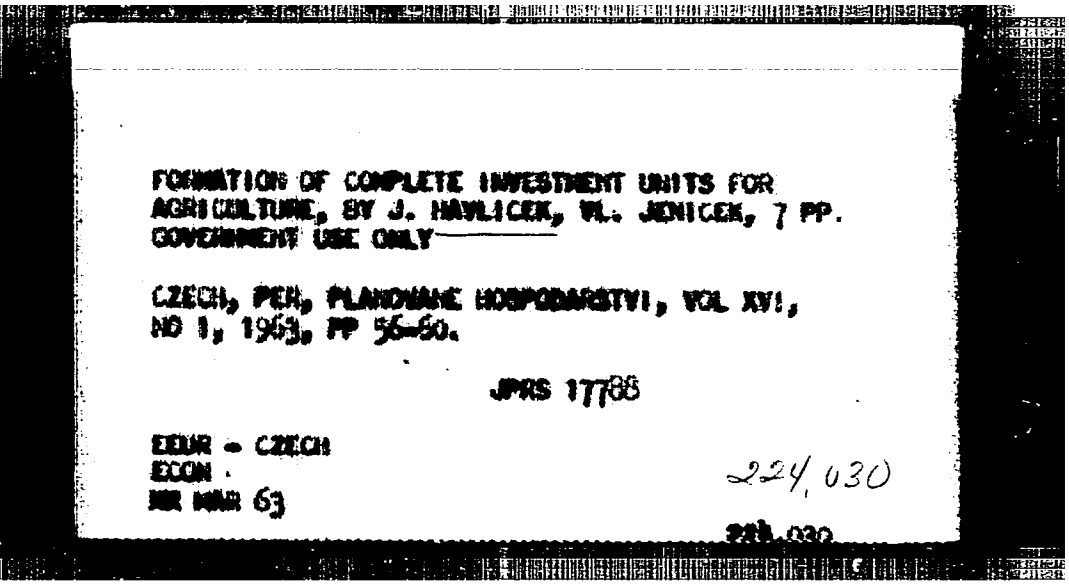

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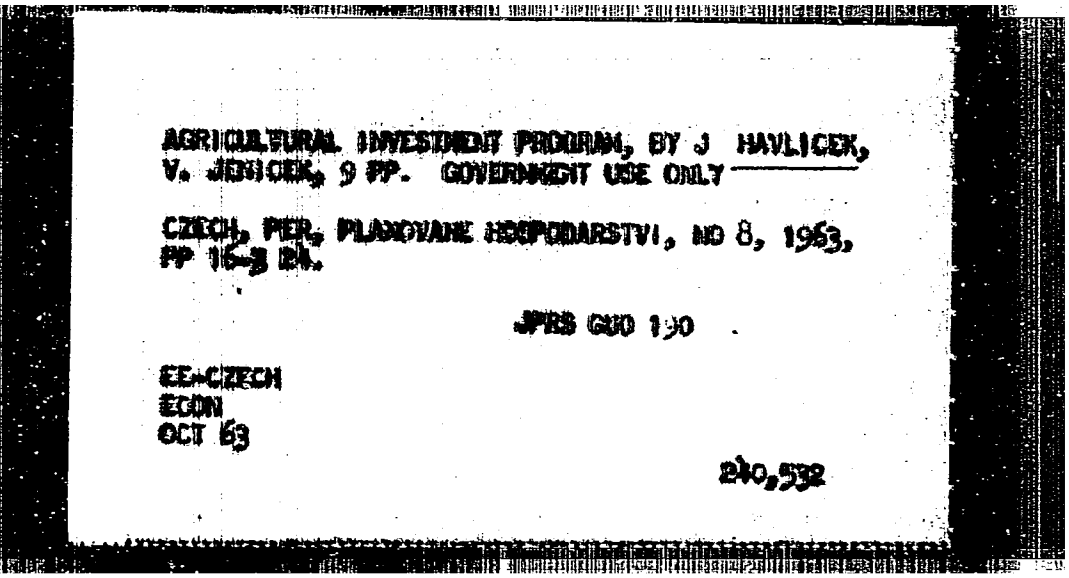

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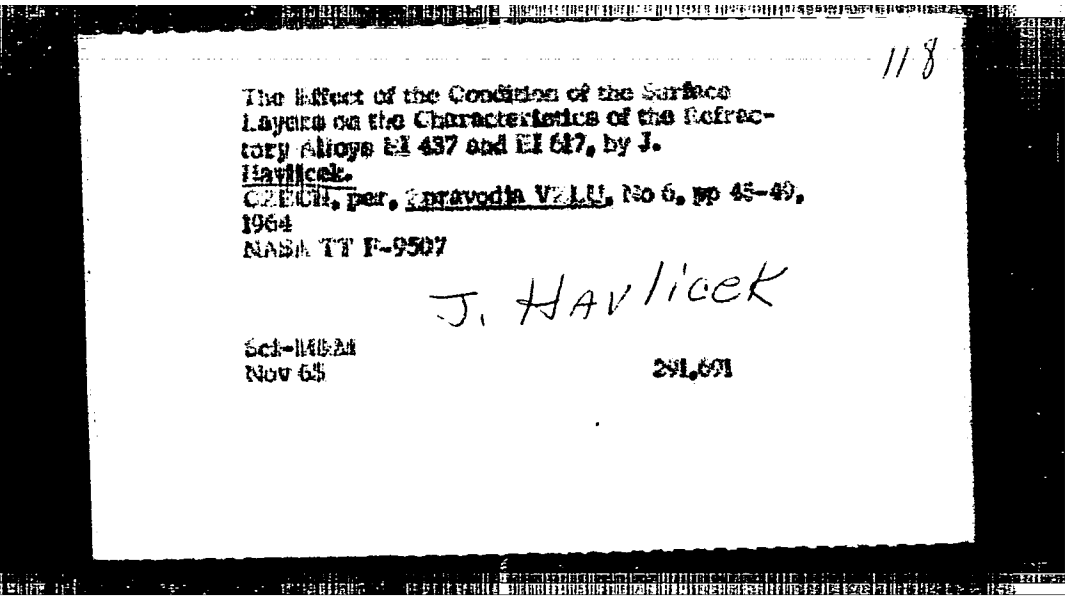

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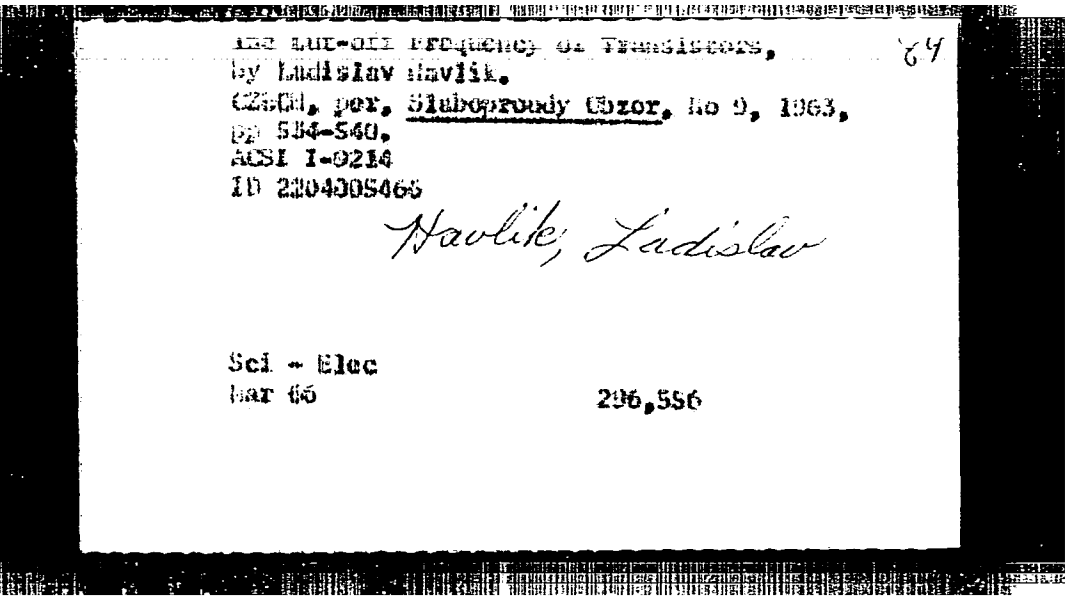

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FTD00038865
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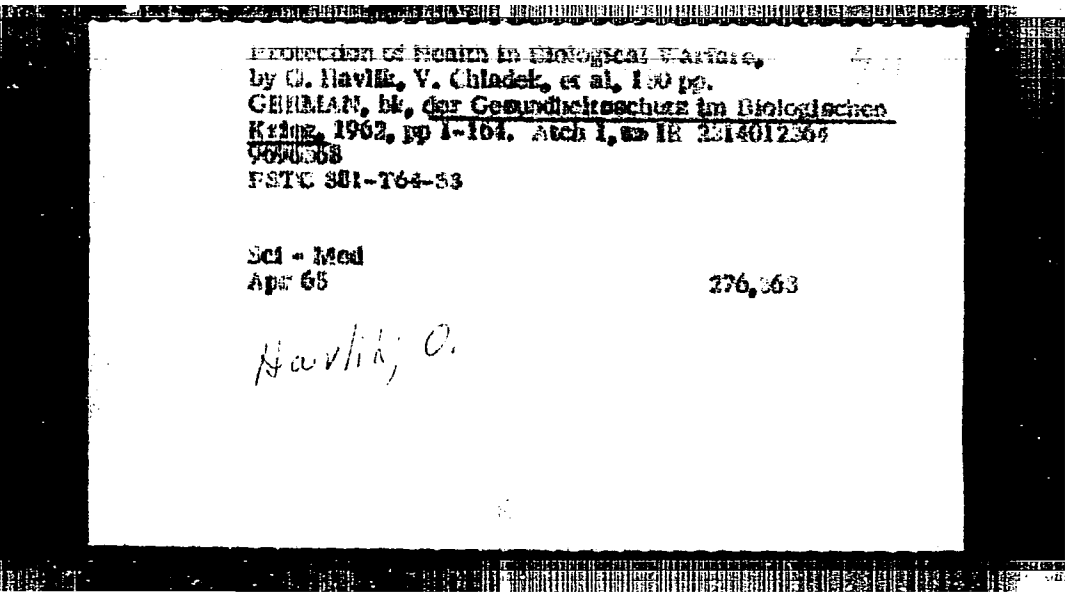

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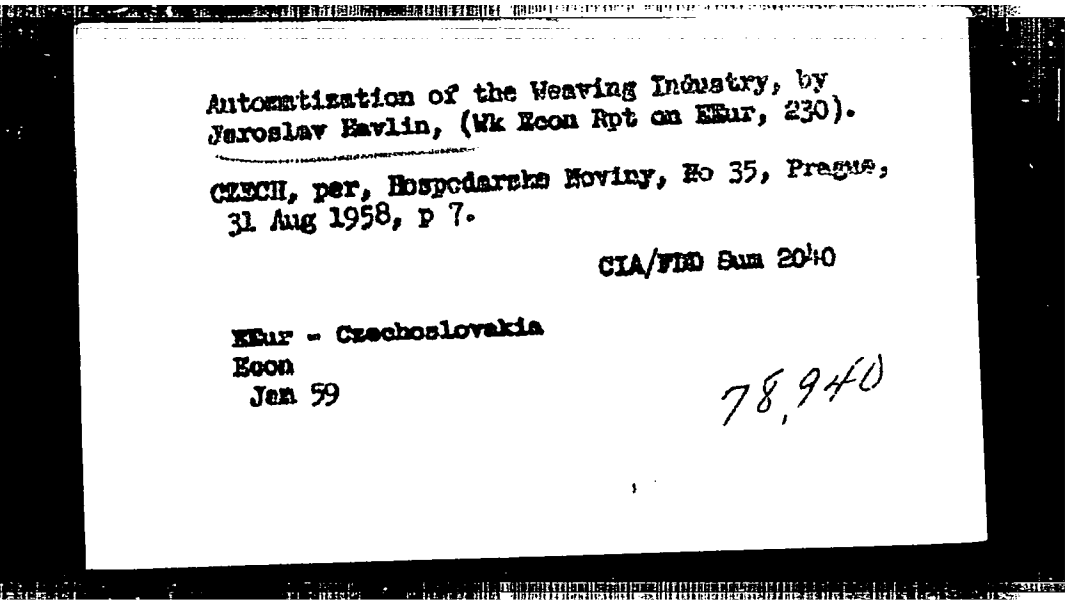

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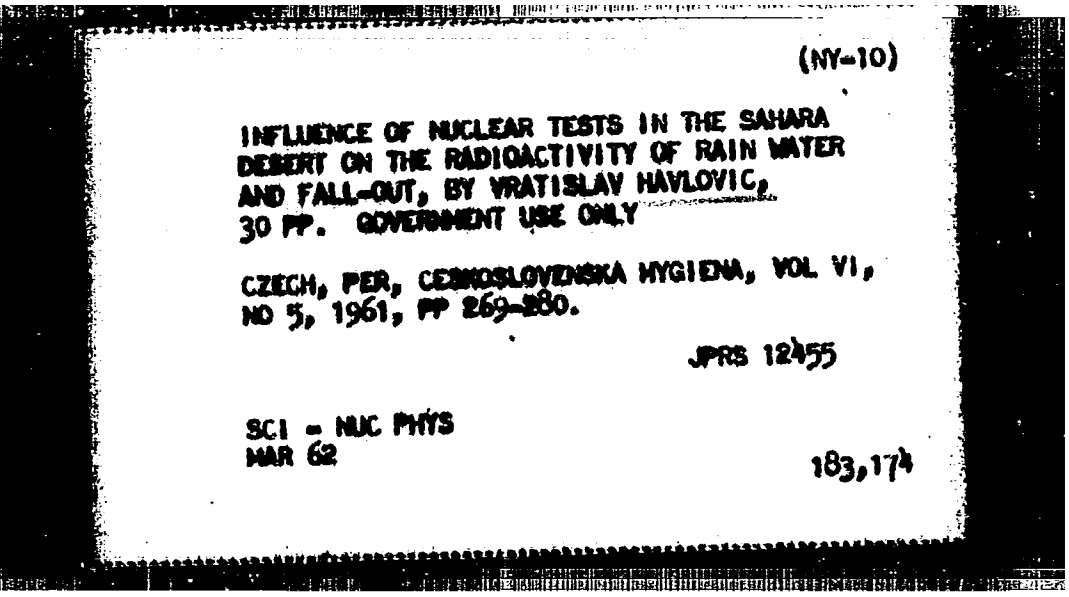

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Hay, A. S.
OXIDATION PROCESS. [1961] 20p.
Order from SLA mi$2.40, ph$3.30 61-10827

Trans. of Belgian patent 556,105, by General Electric Co., U. S., 25 Mar 57 (priority: U. S. appl. 574,076, 27 Mar 56).
Another translation is available from ATS $22.80 as ATS-10L37F [1960] 9p.

A process is given for preparation of aromatic carboxylic acids by oxidation of an aralkyl compound in acetic acid, in the presence of a cobaltous catalyst. The process is characterized in that ozone is used to initiate the reaction and that oxygen is passed into the reaction mixture, which is maintained at a temperature of 90 to 110°C. The water content of the reaction mixture is maintained below 0.1 parts by weight of water per part of acetic acid.

(Chemistry--Physical, TT, v. 5, no. 12)

61-10827

1. Chemical reactions--Analysis
2. Title: Oxidation process
I. Hay, A. S.
II. Patent (Belgium) 556 105

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Hay, Allan Stuart.
PROCESS FOR RAPID OXIDATION. [1961] 50p.
Order from LC or SLA mi$3.30, ph$7.80 61-10826

Trans. of Belgian patent 589 336, by General Electric Co., 4 Apr 60 (corresponding U. S. pat. appl. 641 845, filed 25 Feb 57).

The invention relates to a process for preparing aromatic ketones and carboxylic acids at a high reaction rate and in high yields by a process which consists in oxidizing the alkyl side chain of aralkyl compounds with oxygen in the presence of a catalyst that contains cobalt, bromine, and a carboxylic acid.

(Chemistry--Organic, TT, v. 5, no. 12)

61-10826

1. Ketones--Synthesis
2. Carboxylic acids--Synthesis
3. Cyclic compounds--Oxidation
4. Catalysts--Effectiveness

I. Hay, A. S.
II. Patent (Belgium) 589 336

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NASA TT F-8883

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JPRS 7445

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JPRS 4966

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Econ

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NASA TT F 14,322

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A Loss Mechanism of Geomagnetically Trapped Particlues by Magnetic Distrubances, S. Hayakawa, H. Obayashi.

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*FTD-MT-64-342

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Scientific - Chemistry 34, 314

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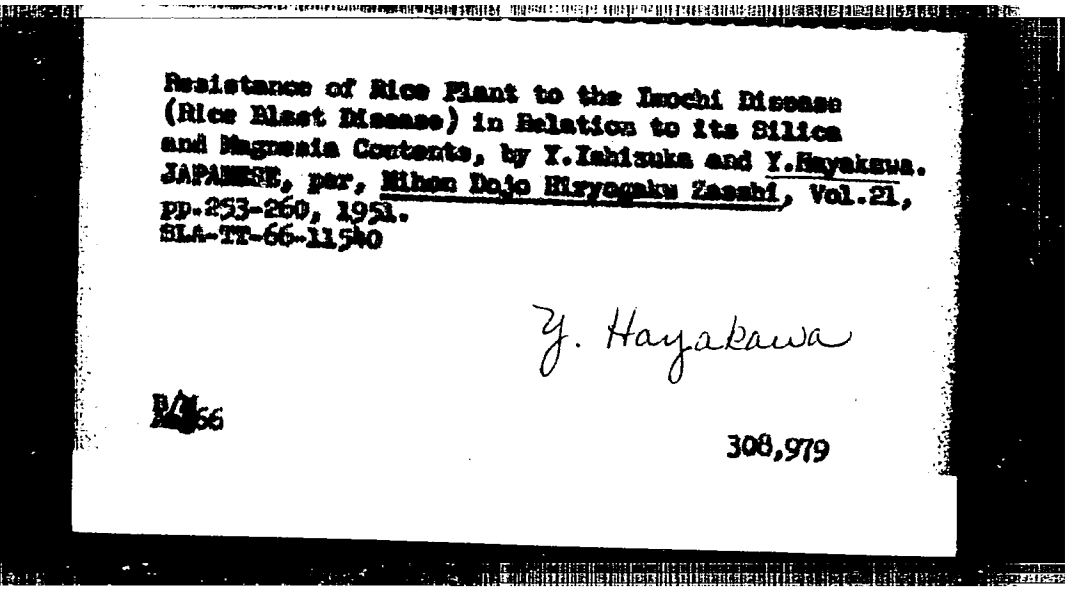

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DESCRIPTORS: *Dielectric films, *Reflection, Differential equations.

(Physics--Optics, TT, v. 11, no. 4)

TT-63-22725

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CONDENSER RECEIVER. [1962] 22p. 8 refs.
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(Research Methods--Communication Theory, TT, v. 10, no. 4)

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Hayashi, Akira.
ON THE EXISTENCE OF PHENOL-β-GLYCOSIDE BOND. Rept. 10 of Studies on the Chemical Combination between Lignin and Carbohydrate. May 62, 8p. 16 refs.
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DESCRIPTORS: *Lignin, *Carbohydrates, Chemical bonds, *Phenols, *Glucosides, *Xylose, Chromatographic analysis, Hydrolysis, Hydroxides, Glycoside hydrolases.

(See also NRCC C-4294)

(Biological Sciences--Biochemistry, TT, v. 10, no. 3)

63-17540

I. Hayashi, A.
II. Title: Studies ...
III. FPRB Trans-154
IV. NRCC C-4388
V. Forest Products Research Branch (Canada)
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DESCRIPTORS: *Lignin, *Carbohydrates, Separation, Chemical bonds, *Paper chromatography.

(Chemistry--Analytical, TT, v. 9, no. 9)

63-12882

I. Hayashi, A.
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III. FPRB Trans-153
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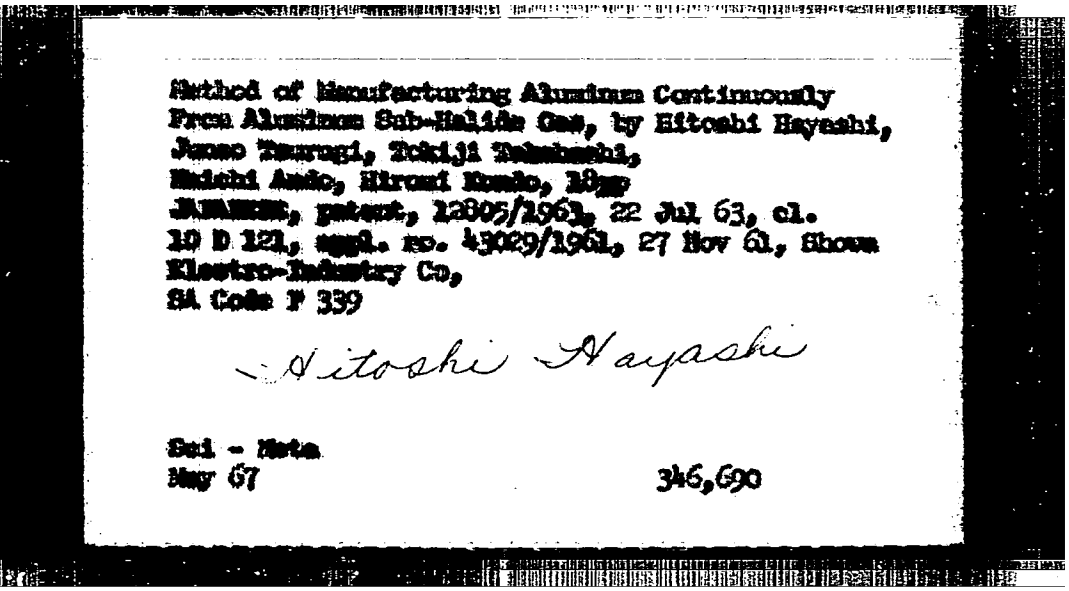

Method of Manufacturing Aluminum Continuously From Aluminum Sub-Halide Gas, by Hitoshi Hayashi, Junno Tamrugi, Tokiji Takahashi, Hideki Ando, Hiroui Kondo, Engr

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SA Code P 339

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The Present Condition of the Negotiations Concerning the Import of Industrial Plants to China and the Problematic Points, by Hayashi Shigeru, 16pp
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On the Mechanism of the So-Called Freeze Phenomenon of Glycerolated Muscle, by F. Hayashi.

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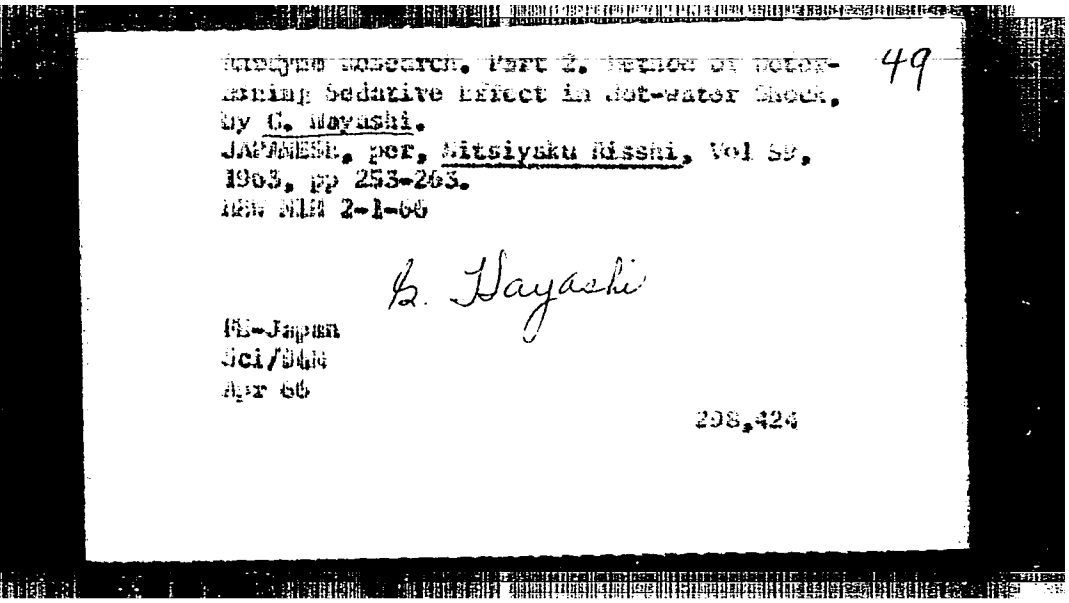

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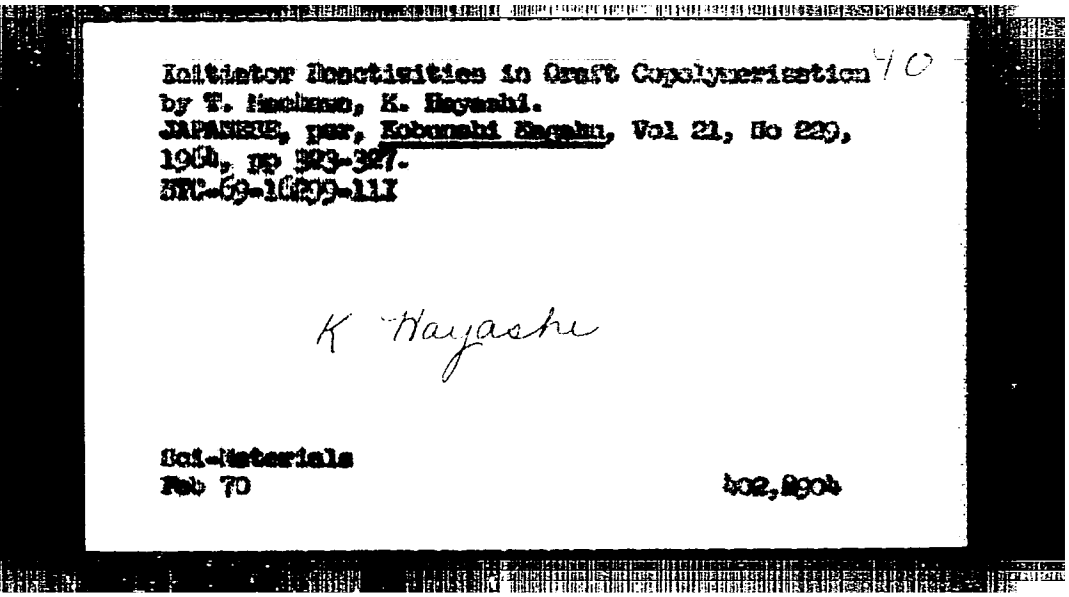

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